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EFFECTIVE 11/29/83

ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUPERSEDED BY EI 84-047
EFFECTIVE 9/25/84

SUBJECT: BRIDGE DESIGN MANUAL
DESIGN CRITERIA FOR BRIDGES
BDD SHEETS FOR BRIDGE RAILING UPGRADING
Subject Code: 7.35-4

Distribution:

30 Main Office

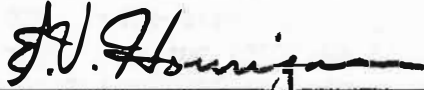
33 Regions

34 Special

Code: E.I. 82-72

Date: 12/23/82

APPROVED:



E.V. HOURIGAN, Deputy Chief Engineer (Structures)

Supersedes:

E.I. 81-36

Attached is a copy of the following BDD Sheets:

- BDD 82-57A - "Details For Attaching Box Beam Railing To Bridge Railing"
- BDD 82-57B - "Details For Attaching Box Beam Railing To Bridge Railing-
Truss Details".
- BDD 82-57C - "Details For Attaching Box Beam Railing To Bridge Railing-
Approach Details".
- BDD 82-57D - "Details For Transition To Bridge Railing-Approach Details".
- BDD 82-57E - "Details For Transition To Bridge Railing".
- BDD 82-57F - "Details For Attaching Thrie Beam Railing To Bridge Railing".
- BDD 82-57GR1 - "Thrie Beam Approach Details To Bridge Railing Upgrading".

Revisions to sheets include the following:

- BDD 82-57A - Note #2 has been modified and Note #3, as previously written, eliminated, in affect, we will no longer approve single rail upgrading of sidewalks unless the blocked out rail can be located near the curb line.

New Note #3 is self explanatory.

An expansion splice detail for 6" x 6" x 3/16" box beams was added and the base plate for the W6 x 25 posts was revised to that used on culverts.

- BDD 82-57B - Note change in second paragraph of Note #2. In addition a separate post detail was added.
- BDD 82-57C - Note change in second paragraph of Note #2. The details were revised to show a double tube transition at all locations.
- BDD 82-57D - Pay limits for the railings were added.
- BDD 82-57E - Note change in second paragraph of Note #2. As on BDD 57-57A the base plate for the W6 x 25 post was revised.

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- BDD 57-57F - The "Notes" on the top right of the sheet has been deleted. Notes #9 and #10 have been added. Post and anchorage details were changed based on the results of recent crash tests.
- BDD 82-57GR1 - This sheet resulted from crash tests conducted on the transition section from thrie beam to W-beam. The tests indicated these transitions could be hazardous. BDD 82-57G is the predecessor to BDD 82-57GR1 but was never officially issued. It was created to handle a special situation. The crash testing results indicated details shown on BDD 82-57G had to be modified immediately. Therefore, BDD 82-57G was quickly issued to those who needed it. We strongly recommend all recipients of this E.I., who never received BDD 82-57G, place a notation on BDD 82-57GR1 that BDD 82-57G is the predecessor to BDD 82-57GR1, but was never issued on a general basis.

All sheets are effective immediately and all plans not beyond the point of amendment should be changed to reflect the new details. The exceptions are the details shown on BDD 81-57G. These details must be changed.